NAACCR Hospital Registry Webinar Series **Abstracting Urinary System Incidence and Treatment Data**

Urinary System · Renal Pelvis and Ureters Bladder Ureters Bladder Urethra

Urinary Tract

- Old Definitions

 Upper urinary tract

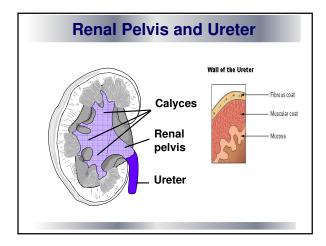
 Kidney, renal pelvis and ureter

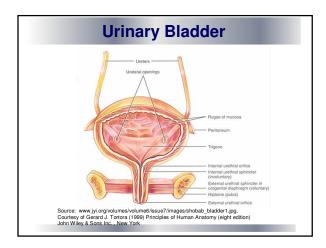
 Lower urinary tract

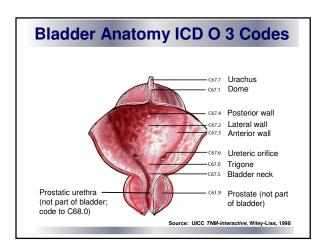
 Bladder, sphincter, urethra
- **New Definition (for MPH Rules)**

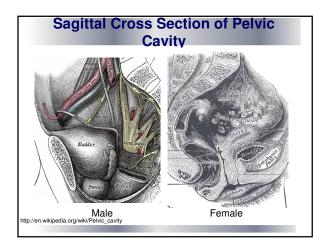
 - KidneyGlandular Tissue

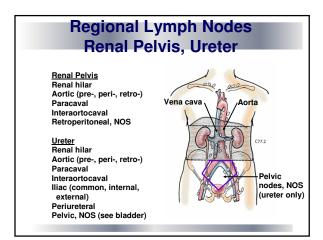
 - Glandular Tissue
 Urinary Tract
 Structures lined by urothelium
 Renal Pelvis
 Ureter
 Bladder
 Urethra

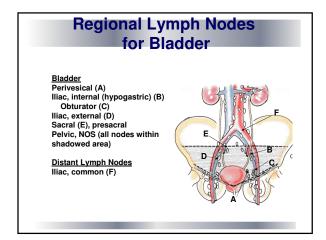












Common Metastatic Sites

- · Renal Pelvis and Ureter
 - Lung
 - Bone
 - Liver
- Bladder
 - Lymph Nodes
 - Lung
 - Bone
 - Liver

HIIV/A	lont	Terms
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- Urothelial (epithelium) = transitional (epithelium)
- Flat transitional cell = flat urothelial = in situ transitional cell = in situ urothelial
- Intramucosal = in situ
- Multicentric = multifocal
 - Multicentric synchronous tumors occur in about 70% of patients
- Tumor = mass = lesion = neoplasm for purposes of MPH rules ONLY

Definitions

Urinary Tract

- Structures lined by transitional epithelium (urothelium)
- Renal pelvis, ureter, bladder, urethra, prostatic urethra in
- males

 Tumor cells may shed and implant in structures lower in the tract causing multifocal tumors

Transitional epithelium

- Preferred term is now urothelium
 Expandable (stretchable) epithelium with layered appearance

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Definitions

Field effect

Generalized deterioration of urothelium throughout urinary tract

Implantation

Malignant cells washed along in urine

Definitions

Intraluminal

- espread along the inner portion (lumen) of a tubular or hollow structure to a contiguous site Example: bladder cancer with in situ intraluminal spread to ureter

Non-invasive tumor

- confined to epithelium (intraepithelial)
 no penetration of basement membrane
 referred to as non-invasive if papillary, in situ if flat

Intramucosal

within the mucosal surface

Invasive tumor

penetration below the basement membrane

Definitions

Papillary vs. Flat Carcinoma

- Gross descriptions of tumor architecture or structure;
- not specific histologies
- Both apply to transitional cell/urothelial carcinoma

Papillary tumor

- Warty growth projecting into lumen of organ
- Attached to wall by a stalk





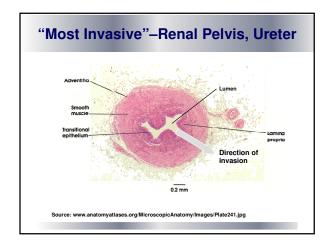
Flat tumor

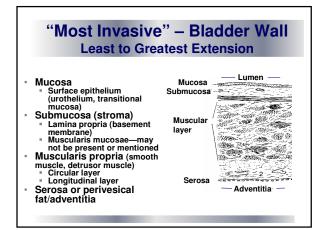
- Non-papillary tumor that lies
- flat against bladder tissue
 Worse prognosis than
 papillary tumor
- Also called carcinoma in situ

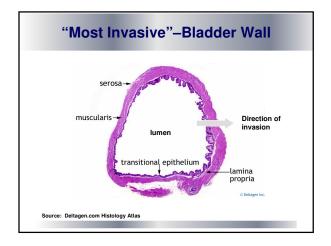












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Urinary Tract Histologies

- · Urothelial carcinoma (transitional cell carcinoma)

 - 90% of all urinary tract cancers
 Papillary urothelial carcinoma (papillary transitional cell carcinoma)
- Squamous cell carcinoma
- 10% of renal pelvis tumors, 5% of bladder tumors
- Adenocarcinoma
 - Very rare in renal pelvis, ureters
- < 1% of urinary tract tumors
 Most likely a primary in kidney parenchyma with extension into renal pelvis or ureter

Urothelial/Transitional Cell Tumors

Code as ICD-O-3 morphology

- Urothelial carcinoma
 - Transitional cell carcinoma, NOS
 - flat (non-papillary) transitional cell
 with squamous differentiation
 with glandular differentiation

 - with trophoblastic differentiation
 - nested transitional cell
- microcystic transitional cell
- Papillary carcinoma

8130

8120

- Papillary transitional cell carcinoma
- Papillary and transitional cell

Urothelial/Transitional Cell Tumors

Code as ICD-O-3 morphology Micropapillary 8131 Lymphoepithelioma-like 8082 Plasmacytoid Sarcomatoid 8122 Giant cell 8031 Undifferentiated 8020

Diagnostic Procedures

Intravenous Pyelogram (IVP)

 Contrast agent (dye) is injected into a vein to outline the kidneys, ureters and bladder on an X-ray



http://www.urologyhealth.org/adult/ind ex.cfm?cat=05&topic=278

Piagnostic Procedures After the cystoscope fills the bladder with water it allows the physician to examine the bladder wall Piece of the cystoscope with the cystoscope fills the bladder with water it allows the physician to examine the bladder wall Piece of the cystoscope of the cystoscope fills the bladder with water it allows the physician to examine the bladder wall water it allows the physician to examine the bladder with water it allows the physician to examine the bladder with water it allows the physician to examine the bladder with water it allows the physician to examine the bladder with water it allows the physician to examine the bladder with water it allows the physician to examine the bladder with water it allows the physician to examine the bladder will bladder with water it allows the physician to examine the bladder wall water it allows the physician to examine the bladder wall water it allows the physician to examine the bladder wall water it allows the physician to examine the bladder wall water it allows the physician to examine the bladder wall water it allows the physician to examine the bladder wall water it allows the bladder water it allows the b

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